

What is claimed is:

Claim 1. A probe coil for an NMR apparatus, which uses a superconductor formed from a conductor made of magnesium 2-boride formed on the surface of a substrate made of a flexible
5 organic polymer material.

Claim 2. The probe coil for the NMR apparatus according to claim 1, wherein the substrate is made of an organic material that contains no hydrogen atoms.

Claim 3. The probe coil for the NMR apparatus according to
10 claim 1, wherein the substrate is made of a material, all or part of hydrogen contained in the substrate being substituted with heavy hydrogen.

Claim 4. The probe coil for the NMR apparatus according to claim 1, wherein the probe coil is constituted by any one of
15 a saddle type, a bird cage type, a Hemholtz type, a one-turn type, a solenoid type, a pancake type and combinations thereof.